McLennan, John Cunningham, 1867-1935 (Professor of Physics) July 1919- June 1930 (052)

July 15th, 1919

Professor J. C. McLennan,

London, England.

My dear Mr. McLennan:

Now that I am leaving for my holidays I should drop you a note to say that the estimates went through pretty much as you asked for them, and I am glad to be able to tell you that the Government have been very good to us and have authorized 25% increases of the salaries of last year, so that your salary is now $5000. They also gave us a grant for research, and I think I am able to assure you that if you need five or six thousand dollars for research next winter it could be obtained from this fund.

I hope that you will be able soon to let me know about your decision as to next session, and I hope that it will mean that you will return to us. Will you give our kind regards to Mrs. McLennan. She will of course feel her Father's death and miss him very much, but at his age the course of life was in any case pretty near its end. To-morrow I leave for my holiday. With kind regards, I am,

Yours sincerely,

President.

Department of Scientific
Research and Experiment.

Room 45, South Block.

5th August, 1919.

My dear President Falconer,

I have just received your note of July 15, and in reply I am sending you herewith some papers which will give you a clear idea as to the situation.

Over here everything is in the air and one cannot be certain whether the Treasury will agree to maintain a department of Research and Experiment in the Navy or not; the Treasury certainly appears to be in no hurry. As a result of it all, I can only say that I finally decided some time ago that they had to reach a decision forthwith, and I did so as set forth in the papers attached hereto. It is doubtful if they can reach a decision before it is time for me to go back to Canada , and I can only say that, under the circumstances, I am looking forward to being back with you and am taking the necessary steps to look after my work in Toronto in the autumn. If the Admiralty should decide on immediate action, as a result of the papers I have put forth, and, if the conditions are such that I can do work here with success and decide to stay, I will cable you forthwith.

The position is not in any respect an attractive one. The whole country is depressed and uncertainty exists everywhere. It may be that they might agree to a department being formed, but fail to back it later on. As you will see from the documents, I have done what I can to guard myself in that respect.

The situation is very distressing both to myself and my wife. I am being urged by all the scientific men here, and by the Admiralty, to remain, and yet the Treasury has not given, as yet, such support as would warrant one from breaking away from one's moorings.

I wish I could write you more definitely, but I have written you frankly and that is all I can do.

Mrs. McLennan wishes me to thank you for your message, and she joins me in kindest regards,

Yours very sincerely,

J. W. McLennan

Sir Robert Falconer,
University of Toronto,
Toronto,
Canada.

S.R.E. 884/19

S.R.E. Department. 2.8.19.

FIRST LORD.
FIRST SEA LORD.
CONTROLLER.
SECRETARY.

Conditions Governing S.C.A.'s Appointment.

In view of the fact that S.C.A. must keep faith with the University of Toronto, which has placed his services at the disposal of the Admiralty for over two years, it has now become imperative that a decision be reached practically forthwith in regard to the permanency of the position of S.C.A. in so far as the present holder of the post is concerned.

With the object of giving definite information as to the conditions which, in the opinion of S.C.A. should apply if the writer is to be appointed permanently to the post of S.C.A. Exhibit B - Memo. on Organisation, etc., and exhibit C - Supplementary Memo. are appended hereto. The conditions formulated therein were drawn up after the Memo. Exhibit A. by Mr. R.R. Scott was submitted to S.C.A.

It will be seen that Exhibit B. contains practically the clauses of Exhibit A. and it includes besides conditions formulated in Office Memorandum No. 352. A few points are incorporated in it which were not taken from the two sources mentioned, but were contained in either D.E.R.'s report to the First Lord or in the report

of the War Cabinet on a Physical Research Institute for the Navy.

The conditions set forth in these latter documents are those which S.C.A. agreed to, and under which he took office in January last. In the interval which has elapsed nothing has occurred to alter the opinion of S.C.A. that these conditions should apply in relation to the permanent post.

Exhibits B and C. represent practically the conditions under which S.C.A. feels that he could hope at all to make a success of the work of the Department of Scientific Research & Experiment in the Navy, and apart from minor details they are therefore the conditions which he feels compelled to ask for if he is to accept office.

If these conditions be accepted and sympathetically supported, due regard being had by S.C.A. for the traditions of the Navy success should be secured for the scheme of Research.

An early decision would be greatly appreciated.

S.C.A.
2.8.19.

EXHIBIT (B)

Memorandum

on

Organisation of Scientific Research and Experiment for Naval Purposes.

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(1) The Scientific Research and Experiment Department (S.R.E. Department) will include as part of its organisation the Admiralty Central Research Institution and the Shandon Experimental Station.

(2) The Head of this Department will have the title of Scientific Adviser to the Admiralty (short title S.C.A.) and he will combine with this office the Directorship of the Admiralty Central Research Institution.

(3) In view of the great importance of ensuring that Naval Policy and Scientific Research do not proceed upon divergent lines, the Scientific Research and Experiment Department will be placed under the superintendence of the C.N.S. and will work in close association with the Plans Division of the Naval Staff.

(4) The Scientific Adviser to the Admiralty will be responsible to the Board of Admiralty through C.N.S. for the efficient performance of the duties of his Department and in the exercise of these duties he will have direct access to individual Members of the Board.

(5) On the experimental side the work of the Department of Scientific Research and Experiment will necessarily in the main, come within the sphere of the Controller as Chief of Naval Material and the Scientific Adviser will accordingly be responsible to the Controller for:-

(a) Advice in regard to Research and programmes of Research generally.

(b) Investigation of Research problems affecting H.M. Navy at the Central Laboratory in London and at the Shandon Sea Station.

(c) Allocation of all funds provided for Research work in the Navy.

(d) The efficiency of the organisation for Research purposes of the Central Research Institution and Experimental Stations.

(e) Information on the progress of research work.

(f) Recommendations for appointment of Civilian Scientific Staff at all Admiralty establishments where research work is undertaken.

(6) The Scientific Adviser will keep in touch with the progress of research in outside institutions with the object of collating and bringing to the notice of the Admiralty Departments any such scientific information as may appear to have a possible bearing on the introduction or development of improved apparatus for Naval purposes. He will also, from time to time, for all Naval establishments doing research work, arrange for such assistance of, or conferences with, Scientists in outside institutions as may be necessary. In arranging for research work to be done for the Navy by professors and other research workers at their own institutions, S.C.A. will, with a view to economy, act on lines determined in conference with the Department of Scientific and Industrial Research.

(7) He will keep in touch with the Heads of Admiralty Departments concerned with the development of apparatus for Naval purposes and with the various Scientific establishments of the Admiralty such as the Mining School, the Wireless Telegraphy Department of the Signal School, the Royal Naval Engineering Laboratory, &c. He or his representative will visit these Establishments from time to time or hold Conferences with their staffs by arrangement with the Heads of the Departments concerned, with the object of suggesting

new lines of Research and of ensuring that there is no avoidable overlapping of functions between these establishments and the establishments under his immediate control

(8) The Central Research Institution will concern itself chiefly with the investigation of first principles, i.e. with "Scientific Research of a fundamental and pioneer character". It will serve as a clearing house with reference to research which may bear on Naval interests and as to the work of individual investigators whose services it might be desirable to utilise from time to time by the organisation which S.C.A. controls. Initially it will be of moderate dimensions and will be manned by a carefully selected nucleus of a staff which can grow as the usefulness of the Institution becomes recognised. The problems to be investigated in the Central Research Laboratory shall be such as will probably find an application of their results in the Navy, but with a view to his maintaining his position in the Scientific world, S.C.A. shall be encouraged as opportunity offers to investigate personally problems of a fundamental nature which he by training and experience is specially fitted to undertake.

(9) In view of the impossibility of providing by annual estimates for all contingencies and in view of possible variations in the political support given to research an initial endowment fund of £20,000 shall be set apart to be used by the S.C.A. for equipment and research not regularly provided for in the Annual Estimates.

(10) From the monies provided in the Annual Estimates for the prosecution of research and experiment expenditure up to £300 on a particular investigation or invention may be incurred at the discretion of S.C.A. Proposal to incur expenditure in excess of the ordinary limit of £300 on a particular investigation or invention shall in the first instance receive the concurrence of the Controller.

(11) All papers dealing with inventions will be marked to S.C.A. in the first place, S.R.D. Department acting as a clearing house for the Navy for all ideas or suggestions for research and for reports on such matters.

E X H I B I T C.

SUPPLEMENTARY MEMORANDUM.

1. Salary should be £2,500 per annum.

2. Conditions of tenure of office, vacations and of pension should be on the lines of those applying to the Director of the National Physical Laboratory at Teddington.

3. In order to save the time of S.C.A. as much as possible, provision should be made for the continuance of the practice of conveying of S.C.A. by motor to and from the temporary laboratory at Wormwood Scrubbs. Where possible and where the interests of the Department will not be prejudiced, S.C.A. should ordinarily use rail, bus and tram facilities in the performance of his duties, but in special cases where haste and urgency is necessary, motor may be used.

4. Although the construction of lighter than air craft is now transferred from the Admiralty to the Air Board, S.C.A. shall, in virtue of the latter part of Clause 8 of the Memo. on Organisation, Exhibit B, be allowed to press to completion his programme for research on the production of Helium in Canada, and, for the exploitation of its uses in the gaseous and liquid form at the Wormwood Scrubbs Station for a period of at least two years.

Approval shall also be given to S.C.A's specialising initially, at the Central Research Station on problems of a fundamental nature associated with ultra violet light, infra red light, polarised light and light phenomena generally, as these are subjects which S.C.A. is personally specially qualified to deal with and are such as are likely to lead to the development of devices which will extend and improve signalling and

communication in the Navy.

5. As regards the endowment fund referred to in Clause 9 of Memo. on Organisation, Exhibit B, it is recalled that the usefulness of such a fund - the Hyderabad Fund - was demonstrated over and over again under the regime of D.E.R. The amount named, viz. £20,000 can be secured by funding the sum of this amount specially allocated for expenditure upon Research work under the Scientific Research and Experiment Department of the Admiralty, 1919/20. ½ (See Treasury letter 9800/19. No.1105) in lieu of the balance of the Hyderabad Fund unexpended on December 31st, 1918. The Fund can also be increased if the "Hyderabad" be sold as suggested by the Controller in his letter to the Financial Secretary of March 24th, 1919.

6. While S.C.A. shall devote his whole time to the duties of his office, he shall not be debarred from sitting on Committees of outside bodies in the national interest, or of making a report on any subject regarding which he possesses special knowledge, provided always permission to do so is first of all obtained.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

726

Toronto, October 3, 1919

Dear President Falconer,

I should like to lay before you and through you the Property Committee , the situation regarding the Helium problem with which I have been connected for some time. Helium as you know, was intended at first for air-ship use. At the same time those who backed the problem in England had in mind the possibility of its use in the direction of pure and applied science.

When the war terminated every encouragement waw given me in England to proceed with the technical and scientific side of the problem. The work was divided into two parts as follows:

(1) That being dealt with by my assistants at Calgary.

(2) That being dealt with by me directly in London.

The work at Calgary consisted in

(a) The development of an efficient and economical machine for the extraction of Helium from Natural Gases. (b) A determination of the cost of production of Helium by the most economical manner.

(c) The preparation of plans for a large producing plant.

The part of the work (a) has been completed and specifications for the machine are being drawn up, and (b) a Report on the cost of production is also being prepared. In order to get this as accurate as possible it is proposed to run the plant we have designed, assembled, and built at Calgary for two or three months in order to produce a supply of Helium aggregating 20,000 cubic feet.

As regards (c) plans are now being drawn up for the construction of a large works for producing Helium on a commercial scale.

As regards the work at Calgary I may say that the Admiralty has supplied me with funds which will enable me to carry on the work there for another two or three months. At the end of that period the Admiralty will have to decide what to do with the Calgary plant.

In my judgment it should be kept there as a small producing plant with which to obtain supplies of Helium for scientific purposes. The cost of the equipment at Calgary to-day would probably be about $ 25,000. To run the plant requires two technical men and three assistants.

As regards the work in London the Admiralty was desirous of maintaining my position in pure science and for that purpose they had agreed to support me in the exploitation of all scientific and technical uses of Helium. They did this the more readily because it was a new field and was not being exploited by any other University or scientific body in England or America. In fact, Helium had

only been liquefied once, namely, at Leyden, and that in a very small quantity, as the whole world supply available before the war did not exceed one cubic metre.

As the work with Helium would involve its liquefaction and thus the attainment of the lowest temperature which can be reached by man, the proposal of the Admiralty to support me received strong backing from University men in England and from the Scientific and Industrial Research Council.

When the wave of economy set in train by the Government a few weeks ago reached the Admiralty, and had to be dealt with by the Board of Admiralty, you will readily see that new Departments such as that having to do with Research and Experiment were the ones which felt the blow first.

The Admiralty were, however, loath to forego the chance of exploiting the scientific and technical uses of Helium and in order to encourage me to go on with it they handed over to me some 10,000 cubic feet of Helium which was in store in England. Half of this I have brought to Toronto and the other half I have in store in the University of Cambridge in England. The Admiralty has also lent me a number of pumps, compressors, and auxiliary apparatus which would enable me to undertake the preliminary stages of the liquefaction of Helium problem.

The point then is, how to utilise this equipment which is available now for a few months anyway before its disposal finally must be taken up.

If I had the space that is available in the Power House behind the Physics Building I could go ahead at once and I should be glad if you and with you the Property Committee would grant me the favour of letting me have that space for this work. As I said before, the money I have available from the Admiralty will carry me on for a few months but of course the handling of the problem in a complete manner will have to be gone into very seriously.

Mr. Albert Gooderham very kindly went into this question with me and left me with the impression that he thought my proposal should be supported.

As regards the general scheme it would probably take about$25,000 to take over the plant at Calgary,unless the Admiralty gave it to us for nothing, and $ 30,000 to $ 35,000 to equip the station for liquefying helium here . It would be necessary also to maintain in connection with the work a glass-blowing department.

If these proposals were supported we would have available through the scheme

1. A supply of Oxygen

2. A supply of Nitrogen

3. A supply of rare gases, argon, neon, helium,etc.

4. We would be able to have liquid air, liquid oxygen, liquid nitrogen, liquid hydrogen and liquid Helium.

This would constitute a unique low temperature research laboratory in America or the British Empire.

Through my fortunate connection with the problem and the combination existing at present in which I form a part this scheme is capable of realisation somewhere. I should be glad if the University could see its way clear to encourage me in attempting to work out this problem. The space that I have indicated or its equivalent is however a necessity. It would be necessary too, to have the work very close to the Physics Building as a considerable part of the apparatus now existing in the University could be made available in situ for the work. I need scarcely point out to you that it will take time to develop all this, possibly a year or more but that with the equipment I have brought with me and some moderate additions, the road is clear for the immediate exploitation of some points of the problem which could be undertaken within the next six months. I should be glad of an opportunity to carry through this scheme.

I do not need to point out to you that it is in just such matters as this that perhaps I can exercise my greatest usefulness to the University. With the research facilities in spectroscopy which I have developed in Toronto with the support of the University, we are almost in a unique position in that field. If my proposals for low temperature research were supported we would certainly

be in a very unique position in America and in fact in the British Empire to deal with all problems associated with low temperature work.

If this low temperature laboratory scheme were supported there are immense possibilities connected with it for the working out of technical and industrial problems. The fixation of nitrogen is such a problem, and problems connected with production of chemical substances based on the utilisation of various gases and electric power.

Such a laboratory should be a great help to an organisation such as the Hydro-Electric Commission of Ontario, and it should also be of great service to supplement the work of the Scientific and Industrial Research Council at Ottawa. This will mean that we may very reasonably look to these bodies for a measure of financial support in maintaining and equipping the laboratory and in running the station at Calgary, but I must not make this letter too long. I should be glad of an opportunity some time soon to talk the matter over with you and possibly also with the members of the Property Committee and others on the Board. We could then deal more fully with the scheme as a whole. What I need now is space to set up the machinery that I have brought with me and which we have funds available to deal with.

I have the honour to be,

Very sincerely yours,

President Sir Robert Falconer,
K.C.M.G.
University of Toronto.

J. C. McLennan

October 4th, 1919

Professor J. C. McLennan, Ph.D., F.R.S., O.B.E.,
University of Toronto.

My dear Professor McLennan:

I am glad to be able to inform you that last night at a meeting of the Senate it was unanimously agreed to offer you the honorary degree of Doctor of Laws, to be conferred at a Special Convocation on November 11th. The degree is conferred in recognition of the great service you have rendered to the British Admiralty during the war.

With kind regards,

I am,

Yours sincerely,

President.

November 21st, 1919

Professor J. C. McLennan, LL.D.,
University of Toronto.

Dear Professor McLennan:

I am very glad to know that you have been awarded the medal of the Royal Society of Arts, and I congratulate you. It is another indication of the value of your work both at home and overseas.

With kind regards, I am,

Yours sincerely,

President.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

653

Toronto, December 16, 1919

Dear Sir Robert,

Professor Burton has given me the enclosed Memorandum having to do with Mr. Petrie's case. I might point out that the situation is a little bit worse than this would indicate, because it seems that the marks that Mr Petrie got in his examination on History in September, while too low to get him a'pass' are still higher than some of the others have who are in the Fourth Year now, and are allowed to go on carrying 'stars' in History.

It seems too, that, when these poeple, who were all given 'stars', took up History, they were not allowed to write an essay like other people taking it, and when they came to be examined in it, they were examined by Professor Williams, while they received their tuition from Professor Wrong, I understand. I also understand that no intimation was given the members of the class until the Srping time, that they had been assigned by Professor Williams as low a mark as 15 for their tern work.

It seems to me there is very little justification for holding back Mr. Petrie, apart from the regulation which seems to exist, and I am not at all satisfied with the action of the Board in adhering to the letter of the regulation, when the spirit of it has been covered. I do hope that some way will be found to revise the situation so as to enable Mr. Petrie to go on.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

I understand from Professor Burton that Professor Wrong is anxious to have the matter arranged, and has proposed some plan by which it may be accomplished. I do not wish to appear to press this matter unduly but the whole position that has been taken up seems to me, from the point of equity, to be quite untenable.

I shall be glad if you can see your way clear to take action which will allow Mr. Petrie to go on.

Yours very sincerely,

J. C. McLennan

Sir Robert Falconer, K.C.M.G.
President,
University of Toronto.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

65H

[DEC 1919]?

MEMO RE MR. PETRIE.

Mr. Petrie, in his first year, was granted standing for National service. In his second year he obtained Third Class Honours and was starred in English. In his Third Year he made a first class percentage but failed in Modern History, both in term work and examination, with the result that his Honours were deferred, which meant that he could not proceed with the work of the higher year unless he wrote off both of these stars. He came up for examination in September, passed in the English but failed in the History, and is at present excluded from registration.

This is in accordance with Sec. 117, Page 46, of the 1919-20 Calendar, which reads as follows:

"The candidate in an Honour Course, who has failed in two Pass subjects, will have his standing deferred both in the Honour Course and in the individual subjects thereof, and will be debarred from registration and enrolment until he has passed in each of these Pass subjects."

The anomaly in the case of Mr. Petrie is that the majority of the rest of the class have the same single star in History, which is now against him.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

647

Toronto, January 13, 1920.

Dear Sir Robert ,

I enclose herewith a minute which I think will do, for the Scholarship which has been donated to the University for Physics by my father in law, the late Mr.Ramsay.

I think the thing to do is to emphasize experimental Physics in the University and if the minute I am sending you be confirmed it will have the desired effect.

Believe me,

Yours very sincerely,

John McLennan

Sir Robert Falconer, K.C.M.G.,
President,
University of Toronto.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

643

Toronto, January 14, 1920

Dear President Falconer,

As you know we have been struggling to get our heads above water in the matter of glassblowing. The men we have been able to secure hitherto can make only the simplest pieces of apparatus, and as a result we are far behind with glassware for the researches we had projected, as well as with glassware for our advanced experiments .

After a good deal of hunting, I at last found I could get a glassblower in Chicago and I wrote him to come. He began work on the second of January and I find now that he is a very good man, and I would recommend, as I did to you verbally a few days ago, that we appoint him to do the high grade work for the first six months of this year. In that time we shall be able to try him out and see if we can use him as the head of a University glass-blowing shop. After talking the matter over with my colleagues Professor McLeod, Professor Hunter, Professor Bain and Professor Lang, I would recommend that Mr. E.J.Wood be appointed glassblower in the University at the rate of $ 225 a month for the first six months of this year, and that his wages be charged up against the Research Fund.

H/350. mall

While he is to be looked upon as a glassblower for the University generally for high grade work, it is understood that he is to be specifically assigned for

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

work in the Departments of Physics, Physiology and Chemical Physiology. Professors McLeod and Hunter are of the opinion that it would be best to have the glassblower directed by myself, and I need scarcely say that I shall endeavour to direct his work so that the most pressing work in the different Departments will be tackled first. I shall also try to see that his work is made most effective and that it meets the needs generally.

I have the honour to be,

Yours sincerely,

J. C. McLennan

Sir Robert A Falconer, K.C.M.G.,
President
University of Toronto.

17/1/20. eq.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

634

Toronto, January 25, 1920

Dear President Falconer,

After the expenditure of a great deal of offort and time we have at last succeeded in getting a mechanical assistant for the workshop. His name is J.Ward, and his address 17 Pauline Avenue. He commenced work on Monday, January 19 and I have agreed to pay him $ 140 a month. I should be obliged if you would kindly have the appointment ratified so that he may get his pay regularly in due course. His pay will be a charge against the special $ 2000 granted by the Board of Governors some time ago for this purpose.

Yours sincerely,

J. C. McLennan

Sir Robert A Falconer, K.C.M.G.
President
University of Toronto.

28/1/20. H.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

633

Toronto, January 26, 1920

Dear President Falconer,

In another letter which I have written you to-day I asked for the ratification of the appointment of James Ward as mechanical assistant in the workshop.

In regard to this matter I may say that I have spent about three months endeavouring to get a machanical assistant, and while some have been available in the interval out negotiations have always broken off on the question of wages. I find that it is absolutely impossible to get a mechanic now for anything like the pay we gave before the war. In the present instance I have had to give $ 140 a month to Mr. Ward. The effect of this is to make his pay about the same as Mr. Plaskett's who is a very much better man, and who is besides the head of my shop. Naturally the taking on of a man at $ 140 a month, even temporarily, has disturbed the situation a little, and I have informed Mr. Plaskett that,in view of the increase in his duties due to the development of research work, and also due to his never sparing himself in working overtime to help us out, I have recommended that he be granted $ 200 for his work for the Session to be taken out of the Research Fund. I am asking now that you kindly take the necessary action to have this sum voted so that towards the end of the Session Mr. Plaskett may receive the $ 200 referred to. There is no need to pay the money over

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

until the end of the Session , and perhaps the matter can stand for a while, but I thought it only right to inform you of the action I have taken.

Yours sincerely,

J. C. McLennan

Sir Robert A .Falconer, K.C.M.G.,
President
University of Toronto.

28/1/20.

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

552

Toronto, March 19, 1920

Dear President Falconer,

One of our Class Assistants, Mr. Fasken, took ill, and was absent almost all the month of February. It was necessary for us therefore to put on another assistant and We asked Mr. E.R.I.Pratt to help us. I would recommend that he be paid the sum of $ 30.00 for this service , and I am enclosing an account for this sum which I shall be glad if you will kindly initial for payment by the Bursar.

This, I think, is the first case of the kind which has occurred in my Department and it seems to me that when we have such a large staff this is the best way to handle it. We could hardly ask the demonstrator himself to pay the man that took his place as his expenses went on while he was ill and getting well. I shall be glad to have your opinion on this matter as we are again putting Mr. Pratt on to take the place of Mr. Cooley who was taken with scarlet fever last Saturday.

With such a large staff as we now have these things are likely to occur and it seems to me the policy followed by the Board of Education of Toronto is the best one to follow, that is that we assume the liability of paying for the temporary assistance required.

I am ,
Yours very sincerely,

Sir Robert A.Falconer,
President
University of Toronto.

J C McLennan

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

584

Toronto, April 7, 1920

Dear President Falconer,

Replying to your letter of April 1, this is to say that Dr. Satterly has been doing the correspondence work and we have arranged for him to act as Instructor in Second Year Physics in the Summer Session.

Yours sincerely,

J. C. McLennan

Sir Robert A Falconer,
President
University of Toronto.

582

April 28th, 1920

Professor J. C. McLennan, LL.D., C.B.E.,
Department of Physics,
University of Toronto.

Dear Professor McLennan:

The Registrar has spoken to me in great anxiety about some examination papers from your department, which he has to have printed immediately. He has asked me whether I would communicate with you and urge you to have them ready for him immediately, as they must be printed for the first day of the examinations.

The members of your staff who are responsible for them are Messrs. Burton, Satterly, Gilchrist and McTaggart.

Yours sincerely,

President.

Board

University of Toronto
TORONTO, CANADA

DEPARTMENT OF PHYSICS

565

Toronto, April 28, 1920

Dear Dr. Abbott,

It will be necessary for Professor Satterly to have an assistant for the lecture work at the Summer Session, and I would recommend that Miss F.M.Quinlan be appointed at a salary of $ 125 for the Session.

Please let me know if you can have her regularly appointed.

Yours sincerely,

H H Nicholson

DrA.H.Abbott,
Secretary,
University Extension Committee
University of Toronto.

be allowed for 100 in our Estimates.

May 4th, 1920

Professor J. C. McLennan, LL.D.,
Department of Physics,
University of Toronto.

Dear Professor McLennan:

I am sending you a letter which I have just received from Professor Satterly. I do not know what your views are in the matter.

To-day I leave for Indiana and am not to be back until the beginning of the week.

Yours sincerely,

President.

543

June 1st, 1920

Professor J. C. McLennan, LL.D., C.M.G.,
Physics Building.

Dear Professor McLennan:

I have looked into the matter of your presenting Kingdon for the degree of Ph.D., but I am sorry to find that it difficult to arrange, inasmuch as we should have to single out one from the other four, and I am afraid that would not be very appropriate. Either Dr. McCurdy will have to present all or each head would have to present the graduate in his department. I am sorry not to be able to meet your wishes, but I am sure you will understand the difficulty.

Yours sincerely,

President.

542

June 2nd, 1920

Professor J. C. McLennan,
Physics Building.

Dear Professor McLennan:

I have just received a letter from Mr. Stillman of the Imperial Oil Company with a cheque for $1000 to be used by you for research work. I have sent the same on to the Bursar and will have it held for your use.

Yours sincerely,

President.